

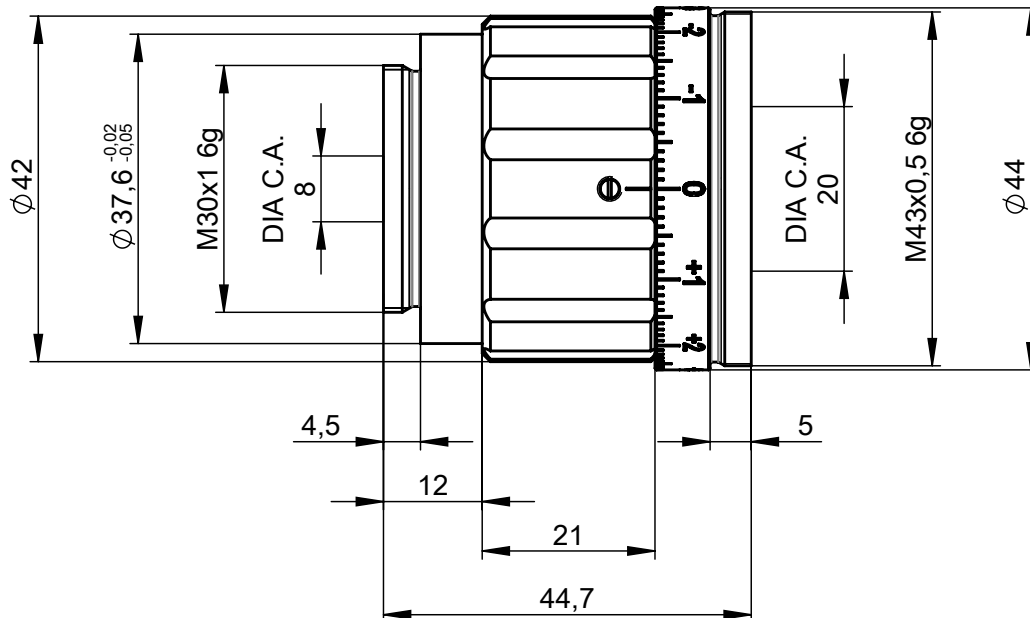
# DATA SHEET

## S6EXK0035/328

Beamexpander  
magnification 3.5  
for 1030 - 1090 nm  
fused silica



### outline drawing

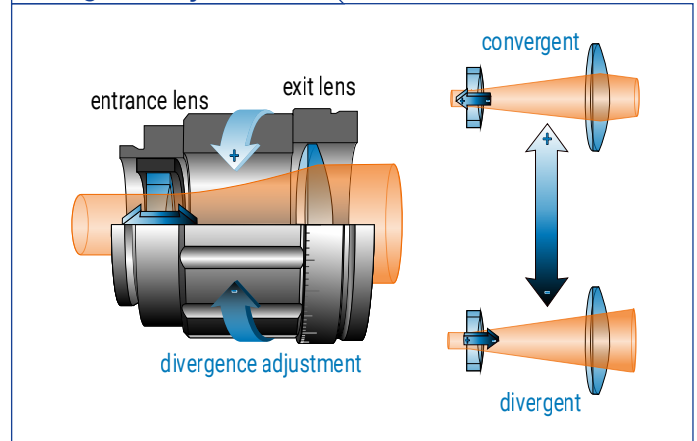


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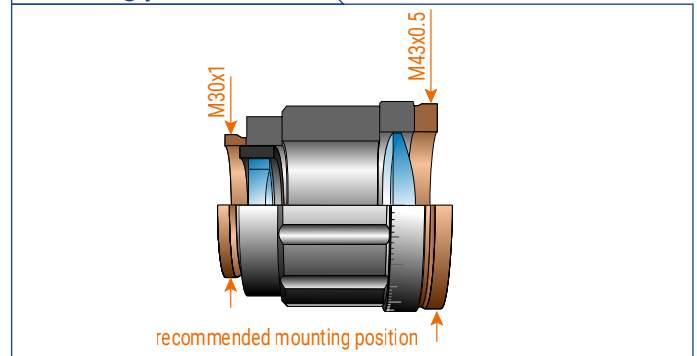
## specifications

article number	S6EXK0035/328
design wavelength [nm]	1064
magnification factor	3.5
divergence adjustable	yes
optical principle	Galilei (no internal focus)
pointing stability [mrad]	< 1
clear input aperture [mm]	8.0
clear output aperture [mm]	20.0
recommended beam-Ø [mm] <sup>1)</sup>	
total number of lenses	2
total transmission [%]	
lens material	fused silica
LIDT (coating) [J/cm <sup>2</sup> ]	5.0 J/cm <sup>2</sup> per 1ns pulse at 50Hz
SP and USP usable	yes
SP and USP usable, reversed usage	yes
mounting thread	M30x1
weight [kg]	not yet weighed
accessory	

## divergence adjustment



## mounting positions



## remarks

<sup>1)</sup> clipped at 1/e <sup>2</sup> ; wavefront error on axis (PV) < λ/10 (value provided by design)
magnification (reversed mode) = 1 / magnification (regular mode)
divergence adjustment = 0 → collimated input beam results in collimated output beam
maximum divergence adjustment is ± 3 mm
RoHS compliant
length at divergence setting „0“ stated in the drawing - length extension of max. 3 mm is possible

## back reflection position

back reflections [mm]	0.00
back reflections reverse [mm]	0.00
0.00	
0.00	
0.00	